



DEFENSE LOGISTICS AGENCY

DEFENSE SUPPLY CENTER, COLUMBUS
POST OFFICE BOX 3990
COLUMBUS, OHIO 43216-5000

IN REPLY
REFER TO DSCC -VAI (Mr. Antonelli/ (DSN 850) 614-692-0576/ra)

April 12, 2004

SUBJECT: Initial Draft of MIL-DTL-21097/2F, /3F, /11J, /13C, /14F, /15G, /16F, /17E, /18D, /19D, /21B, /4F, /5F
Connectors, Electrical, Printed Wiring Boards, General Purpose, General specification for, Project
number 5935-4505-001-013.

Military/Industry Distribution

The initial drafts for the subject documents, which are being revised for conversion to detail status in accordance with acquisition reform and to replace obsolete references, has been placed on the DSCC-VAI website for you to review and comment. The website address is;

<http://www.dscc.dla.mil/Programs/Milspec/DocSearch.asp>

If these documents are of interest to you, please provide your comments or suggested changes by e-mail to ralph.antonelli@dlm.mil or by fax at (614) 692-6940. You may also send comments or suggested changes on Compilation of Comments form 155, shown at the end of the draft documents posted on the web.

Comments or suggested changes that are not editorial in nature should include justification. Industrial activities should indicate whether they are commenting from the standpoint of a "User" or "Manufacturer." Military review activities should forward their comments to their custodians in sufficient time to allow for consolidating the departmental reply. Military departments must identify their comments as either "Essential" or "Suggested." Essential comments, which must be accepted or withdrawn, should be supported by test data unless they obviously require no data.

Please return comments to this Center no later than 45 days from the date of this letter. Any further coordination concerning this document will be circulated only to firms and organizations that furnish comments or reply that they have an interest.

If you do not have access to the world wide web or you have problems downloading this document, please notify Mr. Ralph Antonelli at either the above e-mail address or fax number or by telephone at (614) 692-0576.

Sincerely,

/ signed /

RICHARD L. TAYLOR
Chief
Interconnection Devices Team

cc:
VQP (Tony Carnevalae)
CDAB (Dave Barman)
AF -11 (Jim Arnold - 88 OSS/OSE)

INCH-POUND

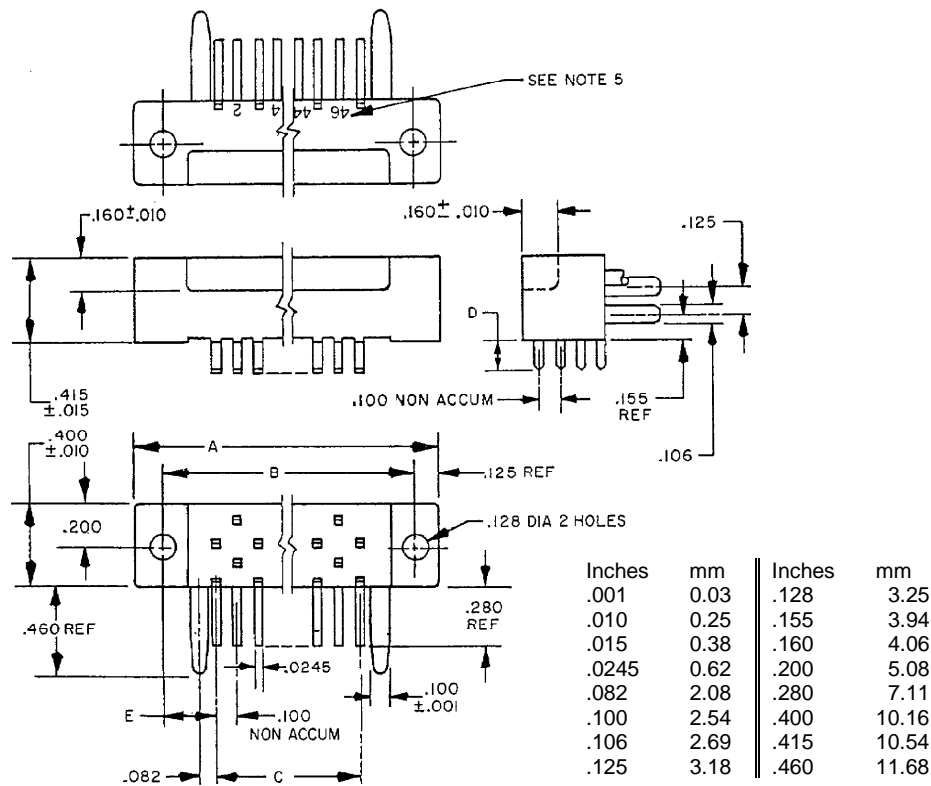
MIL-DTL-21097/14F
DRAFT
SUPERSEDING
MIL-C-21097/14E
21 July 1986

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, PRINTED WIRING BOARD
MALE ADAPTER, CONTACT SPACING: 0.200, ALTERNATE DUAL ROW,
TYPE CS, BLADE CONTACT (MOUNTING PROVISION A)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

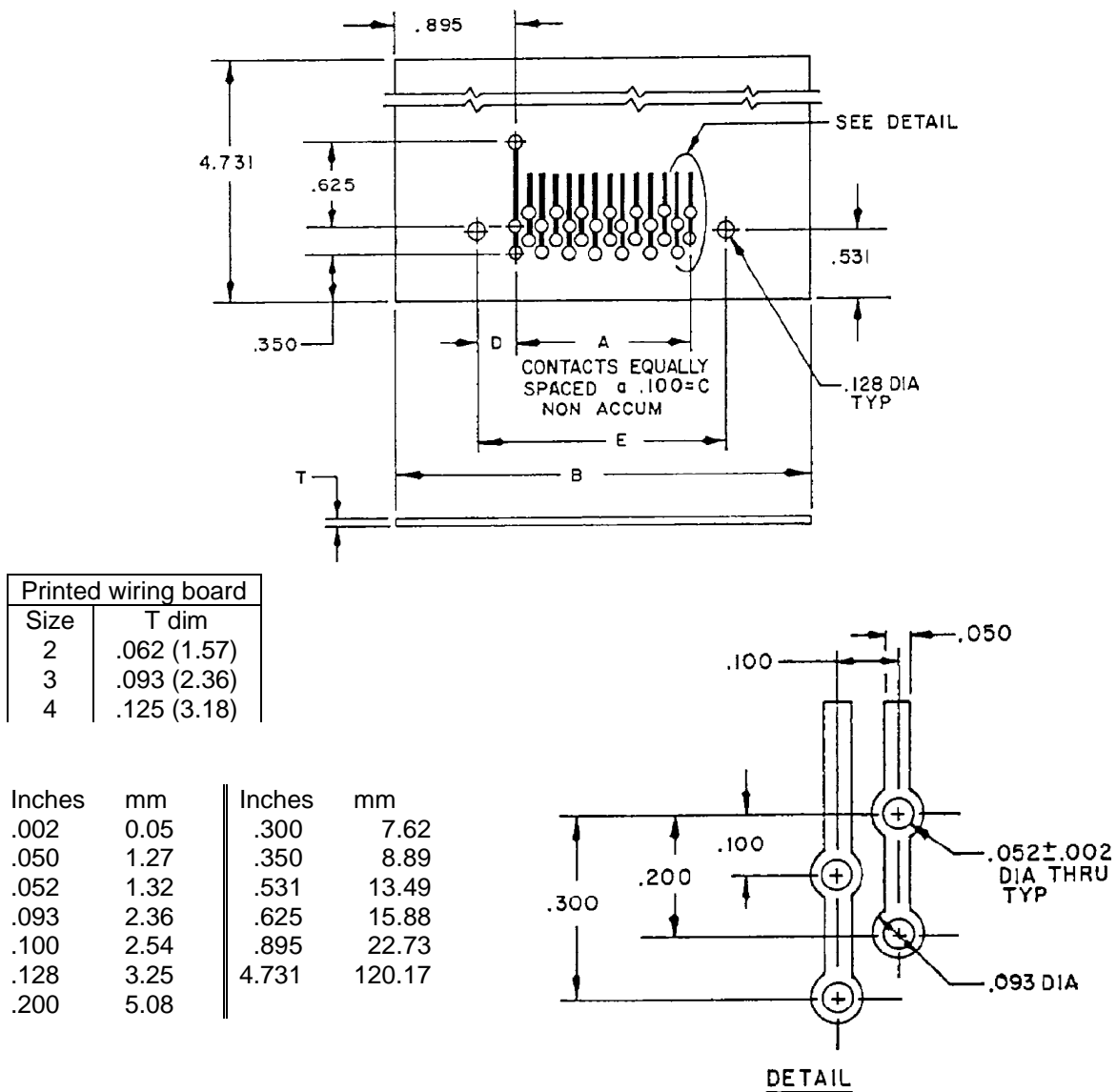
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-21097.



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .005$ (.13 mm) for three place decimals.
3. Metric equivalents are given for general information only.
4. See table I for dimensions.
5. All even numbered contacts to be identified with 3/64 (1.19 mm) minimum high characters, as shown.

FIGURE 1. Blade contact type CS alternate dual row contacts.



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .005$ (.13 mm) for three-place decimals.
3. Metric equivalents are given for general information only.
4. Millimeters are in parentheses.
5. See table II for dimensions B, C, D, and E.

FIGURE 2. Printed wiring test board.

MIL-DTL-21097/14F

TABLE I. Connector, electrical, male adapter, type CS, class b, mounting provision A.

Dash number	Style	Size	Dimensions (inches) ^{1/}				
			A (maximum)	B ±0.007 (0.18)	C	D ±0.010 (0.25)	E
01	17	2				0.120 (3.05)	
02	17	3	2.390 (60.71)	2.130 (54.10)	1.600 (40.64)	0.152 (3.86)	0.265 (6.73)
03	17	4				0.183 (4.65)	
04	23	2				0.120 (3.05)	
05	23	3	2.990 (75.95)	2.730 (69.34)	2.200 (55.88)	0.152 (3.86)	0.265 (6.73)
06	23	4				0.183 (4.65)	
07	29	2				0.120 (3.05)	
08	29	3	3.590 (91.19)	3.330 (84.58)	2.800 (71.12)	0.152 (3.86)	0.265 (6.73)
09	29	4				0.183 (4.65)	
10	35	2				0.120 (3.05)	
11	35	3	4.190 (106.43)	3.930 (99.82)	3.400 (86.36)	0.152 (3.86)	0.265 (6.73)
12	35	4				0.183 (4.65)	

^{1/} Millimeters are in parentheses.

MIL-DTL-21097/14F

TABLE I. Connector, electrical, male adapter, type CS, class b, mounting provision A – Continued.

Dash number	Style	Size	Dimensions (inches) ^{1/}				
			A (maximum)	B ±0.007 (0.18)	C	D ±0.010 (0.25)	E
13	41	2	4.790 (121.67)	4.530 (115.06)	4.000 (101.60)	0.120 (3.05)	0.265 (6.73)
14	41	3				0.152 (3.86)	
15	41	4				0.183 (4.65)	
16	47	2	5.623 (142.82)	5.363 (136.22)	4.600 (116.84)	0.120 (3.05)	0.265 (6.73)
17	47	3				0.152 (3.86)	
18	47	4				0.183 (4.65)	

^{1/} Millimeters are in parentheses.

TABLE II. Printed wiring test board.

Style	Dimensions (inches) ^{1/}			
	B	C	D	E
17	3.390 (86.10)	1.600 (40.64)	.265 (6.73)	2.130 (54.10)
23	3.990 (101.34)	2.200 (55.88)	.265 (6.73)	2.730 (69.34)
29	4.590 (116.58)	2.800 (71.12)	.265 (6.73)	3.330 (84.58)
35	5.190 (131.82)	3.400 (86.36)	.265 (6.73)	3.930 (99.82)
41	5.790 (147.06)	4.000 (101.60)	.265 (6.73)	4.530 (115.06)
47	6.390 (162.23)	4.600 (116.84)	.265 (6.73)	5.363 (136.22)

^{1/} Millimeters are in parentheses.

MIL-DTL-21097/14F

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

Contacts material: Gilding metal brass conforming to copper alloy number UNS C21000 of ASTM B36

Mating receptacle: Shall conform to MIL-C-21097/13.

Printed wiring test board: Two-ounce copper one side only, gold plated as specified in IPC-D-275.
Board shall conform to IPC-D-275 and MIL-PRF-31032. See figure 2 for the applicable connector size.

Finish: See MIL-C-21097.

Part or identifying number: M21097/14-(dash number from table I).

NOTES

Referenced documents. In addition to MIL-DTL-21097, this specification sheet references the following documents.

MIL-DTL-21097/13

MIL-PRF-31032

ASTM B 36

IPC-D275

CONCLUDING MATERIALS

Custodians:

Army – CR

Navy – EC

Air Force – 11

DLA – CC

Preparing activity:

DLA - CC

(Project 5935-4505-005)

Review activities:

Army – AR, AT, CR4, MI

Navy – AS, MC, OS

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://www.dodssp.daps.mil>.

PROJECT NUMBER		COMPILATION OF COMMENTS		COMMENT NUMBER
DOCUMENT		COMMENTOR IND NAME OR CODE	[] MFR [] USER [] IND ASSOC	
DOD USE ONLY	DEPT	[] A [] N [] AF [] DLA [] NSA [] CNDN [] NASA		[] ESSENTIAL [] SUGGESTED
RECOMMENDED DISPOSITION OF COMMENT: [] ACCEPTANCE [] NON-ACCEPTED-SEE REASON [] WITHDRAW [] MODIFY [] DISCUSS				
FINAL DISPOSITON OF COMMENT: [] ACCEPTED [] NON-ACCEPTED [] WITHDRAW [] MODIFY				

DESC FORM 155

PROJECT NUMBER		COMPILATION OF COMMENTS		COMMENT NUMBER
DOCUMENT		COMMENTOR IND NAME OR CODE	[] MFR [] USER [] IND ASSOC	
DOD USE ONLY	DEPT	[] A [] N [] AF [] DLA [] NSA [] CNDN [] NASA		[] ESSENTIAL [] SUGGESTED
RECOMMENDED DISPOSITION OF COMMENT: [] ACCEPTANCE [] NON-ACCEPTED-SEE REASON [] WITHDRAW [] MODIFY [] DISCUSS				
FINAL DISPOSITON OF COMMENT: [] ACCEPTED [] NON-ACCEPTED [] WITHDRAW [] MODIFY				

DESC FORM 155